

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865638

Luminaire Tested: PRLX-2002-S-930-20L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-20L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

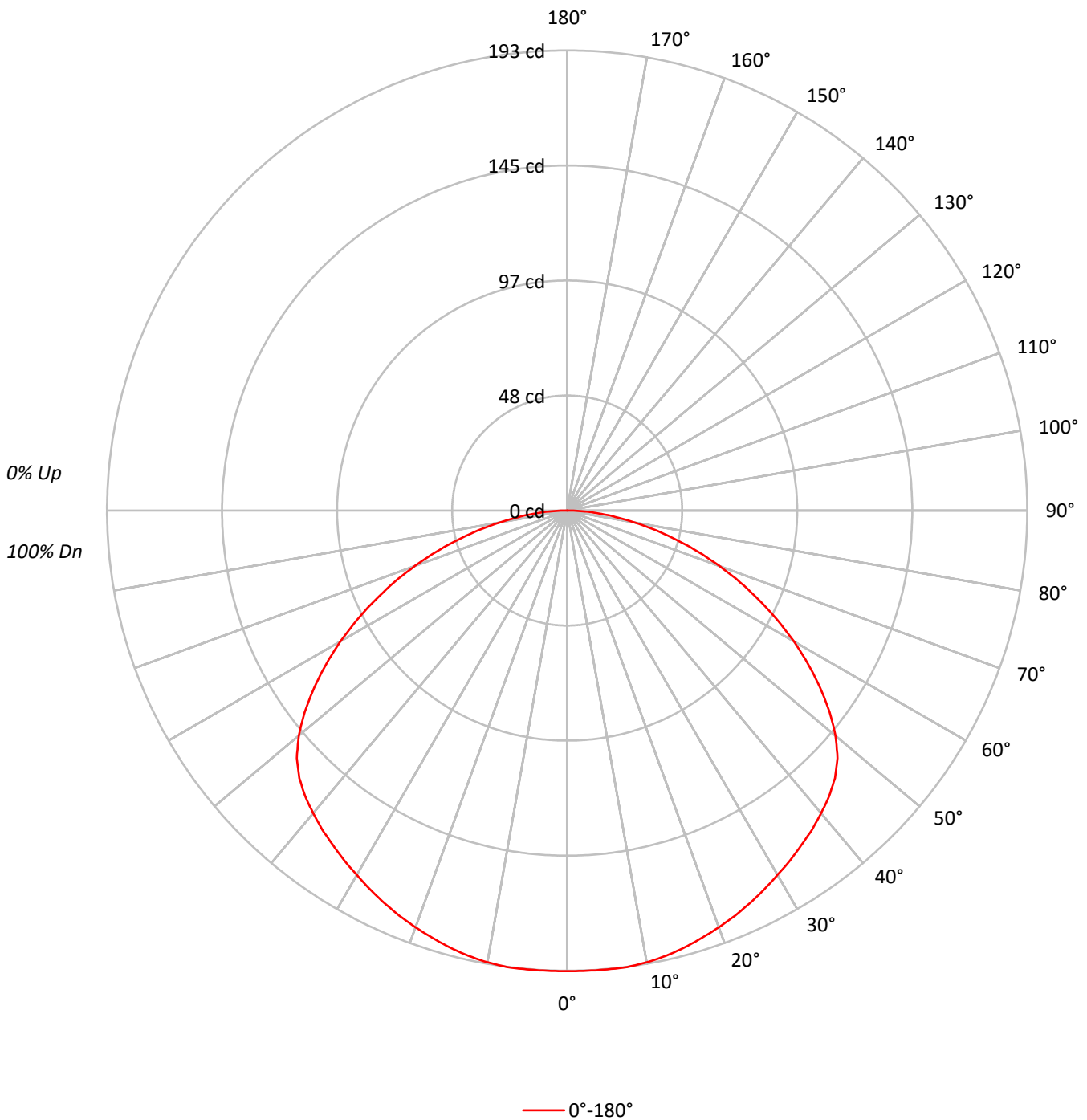
Lumens per Lamp: N/A
Luminaire Lumens: 654.4 lumens
Efficiency: N/A
Efficacy: 30.0 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.53
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3629
5°	3643
10°	3670
15°	3691
20°	3718
25°	3764
30°	3828
35°	3928
40°	4063
45°	4219
50°	4293
55°	4241
60°	4129
65°	3947
70°	3729
75°	3447
80°	3126
85°	2823

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4293 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	2.8
10°-20°	53.6	8.2
20°-30°	83.9	12.8
30°-40°	107.5	16.4
40°-50°	122.1	18.7
50°-60°	115.5	17.7
60°-70°	88.0	13.4
70°-80°	50.5	7.7
80°-90°	14.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	155.9	23.8
0°-40°	263.4	40.3
0°-60°	501.0	76.6
0°-90°	654.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	193	
5°	193	18
15°	190	54
25°	182	84
35°	171	107
45°	159	122
55°	130	116
65°	89	88
75°	48	51
85°	13	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	193.2
2.5°	193.2
5°	193.2
7.5°	193.1
10°	192.4
12.5°	191.3
15°	189.8
17.5°	187.9
20°	186.0
22.5°	183.9
25°	181.6
27.5°	179.1
30°	176.5
32.5°	174.0
35°	171.3
37.5°	168.7
40°	165.7
42.5°	162.6
45°	158.8
47.5°	153.8
50°	146.9
52.5°	138.8
55°	129.5
57.5°	119.8
60°	109.9
62.5°	99.4
65°	88.8
67.5°	78.5
70°	67.9
72.5°	57.7
75°	47.5
77.5°	38.0
80°	28.9
82.5°	20.4
85°	13.1
87.5°	6.7
90°	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.43	19.12	17.79	19.44	19.75	17.43	19.12	17.79	19.44	19.75
	3H	19.23	20.77	19.61	21.10	21.45	19.23	20.77	19.61	21.10	21.45
	4H	19.90	21.35	20.30	21.70	22.08	19.90	21.35	20.30	21.70	22.08
	6H	20.40	21.75	20.81	22.12	22.51	20.40	21.75	20.81	22.12	22.51
	8H	20.57	21.86	20.99	22.25	22.64	20.57	21.86	20.99	22.25	22.64
	12H	20.69	21.93	21.12	22.31	22.74	20.69	21.93	21.12	22.31	22.74
4H	2H	18.07	19.52	18.47	19.87	20.24	18.07	19.52	18.47	19.87	20.24
	3H	20.09	21.32	20.50	21.71	22.11	20.09	21.32	20.50	21.71	22.11
	4H	20.89	22.00	21.32	22.41	22.85	20.89	22.00	21.32	22.41	22.85
	6H	21.53	22.50	21.98	22.94	23.39	21.53	22.50	21.98	22.94	23.39
	8H	21.74	22.65	22.20	23.09	23.56	21.74	22.65	22.20	23.09	23.56
	12H	21.91	22.73	22.39	23.20	23.67	21.91	22.73	22.39	23.20	23.67
8H	4H	21.22	22.13	21.67	22.57	23.03	21.22	22.13	21.67	22.57	23.03
	6H	21.97	22.73	22.46	23.22	23.69	21.97	22.73	22.46	23.22	23.69
	8H	22.26	22.95	22.77	23.45	23.93	22.26	22.95	22.77	23.45	23.93
	12H	22.51	23.12	23.02	23.61	24.16	22.51	23.12	23.02	23.61	24.16
12H	4H	21.26	22.08	21.73	22.55	23.02	21.26	22.08	21.73	22.55	23.02
	6H	22.03	22.72	22.54	23.22	23.71	22.03	22.72	22.54	23.22	23.71
	8H	22.39	22.99	22.89	23.48	24.04	22.39	22.99	22.89	23.48	24.04